PROTON CONDUCTOR

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Applicant:

TOYOTA CENTRAL RES & DEV

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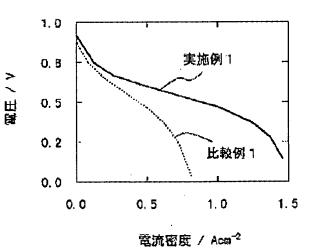
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Abstract of JP2001155744

PROBLEM TO BE SOLVED: To provide an ion conductor that ensures a strong electrolyte layer with high material strengh, and stabilizes the ion conductivity electric conductivity for a prolonged time. SOLUTION: A material obtained by introducing an acid functional group like sulfonic acid group into an inorganic material such as silica by chemical bonding is combined with a polymer electrolyte material such as perfluorosulphonic group polymer. The inorganic material combined with the acid functional group may be combined with a polymer containing an acid functional group or a polymer not containg such acid functional group. In the latter, the acid functional group of the inorganic material imparts ion conductivity as the electrolyte group.

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